

**B. PHARM.
FIFTH SEMESTER
MEDICINAL CHEMISTRY-II
BP501T [REPEAT]
[USE OMR FOR OBJECTIVE PART]**

Duration : 3 hrs.

Full Marks : 75

(PART-A: Objective)

Time : 30 min.

Marks : 20

Choose the correct answer from the following:

1×20=20

1. Voglibose is a
 - a. Sulfonyl Ureas
 - b. Glucosidase Inhibitors
 - c. Biguanide
 - d. Meglitinide
2. Statins act by
 - a. Inhibition of HMG CoA Reductase
 - b. Inhibition of Platelet Agregation
 - c. Inhibition of Neovascularization
 - d. Increased Fibrinolysis
3. Which enzyme converts angiotensinogen to angiotensin-I?
 - a. Renin
 - b. ACE
 - c. ACE inhibitor
 - d. None
4. Quinidine depresses the entry of Na⁺ in cell and decreases the diastolic depolarization and thus decreases the
 - a. Excitability
 - b. Automaticity
 - c. Atherosclerosis
 - d. Contractility
5. T₃ stands for
 - a. Triiodothyronine
 - b. Triiodothyroxine
 - c. Thyroxine
 - d. Thyronine
6. Amongst given which is a local anesthetic ---
 - a. Halothan
 - b. Spiranolactone
 - c. Lignocaine
 - d. None of the above
7. Which of the following belongs to Dihydropyridine CCB's
 - a. Nicorandil
 - b. Nifedepine
 - c. Amloride
 - d. Amiodarone
8. One of the following drug act by sequestering the bile acid in GIT
 - a. Gemfibrosil
 - b. Coronary stent
 - c. Colestipol
 - d. Probucol
9. The drug which is used as diuretics and hair care product is
 - a. Mannitol
 - b. Minoxidil
 - c. Mephalan
 - d. Diazoxide

10. Which of the following action is performed by Histamine?
 - a. Vasodilation
 - b. Increased permeability
 - c. Dolor
 - d. All of these
11. The Na⁺-Cl⁻ symport in the early distal convoluted tubule of the kidney is inhibited by
 - a. Thiazides
 - b. Metolazone
 - c. Xipamide
 - d. All of the above
12. Which antineoplastic agent is folic acid analogou
 - a. Methotrexate
 - b. Mercaptopurine
 - c. Cisplatin
 - d. Mechlorthamine
13. One of these local anaesthetic drug is also used in arrhythmia
 - a. Procaine
 - b. Cinchocaine
 - c. Lignocaine
 - d. Amethocaine
14. Which is a non selective alpha and beta blocker _____
 - a. propranolo
 - b. prazosin
 - c. labetalol
 - d. phenoxybezamine
15. Which of the following is an Aldosterone Antagonist
 - a. Bumetinide
 - b. Amiloride
 - c. Spiranolactone
 - d. b and c
16. Ethacrynic acid is a
 - a. Loop Diuretics
 - b. High Efficacy Diuretics
 - c. A and b
 - d. Carbonic Anhydrase Inhibitors
17. Which of the following is not the function of an oral pill?
 - a. Inhibit ovulation
 - b. Inhibit heart development in the fetus
 - c. Inhibit implantation
 - d. Inhibit entry of sperms
18. Corpus luteum secretes _____
 - a. Progesterone
 - b. Estrogen
 - c. Lutenizing hormone
 - d. Follicle stimulating hormone
19. Identify the correct statement regarding Warfarin
 - a. Warfarin specifically inhibits epoxide reductase enzyme
 - b. a, c and d
 - c. Warfarin is metabolized by the microsomal P450 enzyme
 - d. Warfarin is a vitamin K antagonist
20. Which of the following hormonal dosage is given as an oral administration to prevent pregnancy?
 - a. Relaxin
 - b. Progesterone
 - c. Estradiol
 - d. Epinephrine

PART-B: Descriptive

Time : 2 hrs. 30 min.

Marks : 35

[Answer any seven (7) questions]

1. What are anti hyperlipidemic agents? Explain the mechanism of action of Statin. 1+2+2
Write the structure and uses of Clofibrate. =5
2. What are anticoagulants? Give the mechanism of action, synthesis and uses 1+4=5
of Warfarin
3. Define angina pectoris? Write the MOA of Nitrates? Write the Synthesis 1+2+2
and uses of nitroglycerine. =5
4. What are potassium sparing diuretics? Outline the synthesis and 2+3=5
medicinal uses Chlorthiazide.
5. a. Write mechanism of action of gastric proton pump inhibitors. 5
b. Write a note on synthesis of thyroid hormone and anti thyroid drugs.
6. Write the Definition and types of Diabetes Mellitus? Classify Anti 2+3=5
diabetic agents with examples.
7. Write the structure and specific uses of 1+4=5
 - a. Furosemide,
 - b. Cimetidine
 - c. Hydralazine
 - d. Captopril
 - e. Clonidine
8. Write the Synthesis of Benzocaine and Acetazolamide and write 1+4=5
their uses.
9. Define Anti arrhythmic agent. Classify them with suitable example. 1+4=5
Write the structure and uses of Procainamide.

PART-C : Long type questions

[Answer any two (2) questions]

1. What are anti neoplastic agents. Classify them with example? Discuss the mechanism of action of Alkylating agents. Outline the synthesis of Meclorothamine 1+3+3+
3=10
2. Define and classify Local Anaesthetic and write the MOA of it. Write the SAR of Benzoic Acid Derivative. 1+2+2+
5=10
3. Define and Classify antihypertensive agents? Explain the MOA of ACE Inhibitors. Write the synthesis of Methyl Dopa. 1+5+2+
2=10

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